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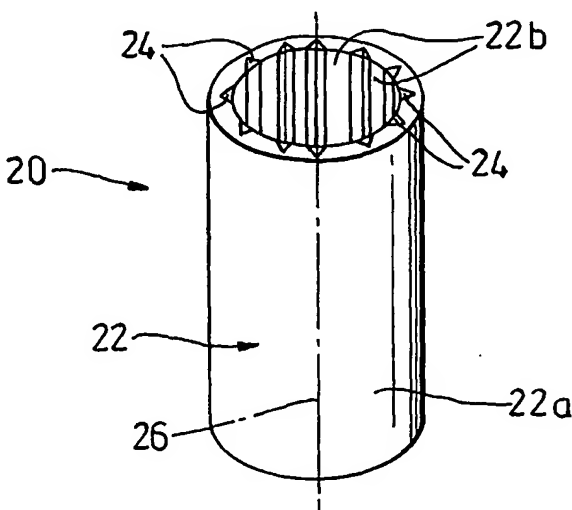
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(54) Title: CYCLONIC SEPARATING APPARATUS



(57) Abstract: The invention provides cyclonic separating ap-
paratus (10) for separating solid material from a fluid, the ap-
paratus having a separating chamber (12), an inlet (14) com-
municating with the separating chamber (12) for carrying the
fluid with the solid matter entrained therein to the separating
chamber (12), and an outlet (20; 120; 220; 320; 420; 520; 620)
for carrying the fluid away from the separating chamber (12)
after the solid material has been separated therefrom. The outlet
(20; 120; 220; 320; 420; 520; 620) is formed by a conduit com-
municating with the interior of the separating chamber (12)
and having a longitudinal axis (26; 126; 226; 326). A plurality
of grooves (24; 124; 224; 324; 424; 524; 624) are formed in
an interior surface (22b; 122b; 222b; 322b; 422b; 522b; 622b)
of the conduit outlet (20; 120; 220; 320; 420; 520; 620), the
grooves (24; 124; 224; 324; 424; 524; 624) extending in the
same direction as the longitudinal axis (26; 126; 226; 326).
The presence of the grooves (24; 124; 224; 324; 424; 524;
624) in the outlet has the effect of reducing noise generated
by the apparatus (10) when in use and also improves pressure
recovery.

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